

INTERNATIONAL SEARCH REPORT

Int	1st Application No
PCT/EP2004/000796	

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G10K11/178

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G10K H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 445 799 B1 (TAENZER JON C ET AL) 3 September 2002 (2002-09-03) column 3, line 41 - column 5, line 15 column 6, line 15 - line 38; figures 2,7-9	1-5
X	US 5 033 090 A (WEINRICH ET AL) 16 July 1991 (1991-07-16) column 2, lines 1-46 column 3, line 21 - line 27; figure 1	1,2
X	US 5 740 258 A (GOODWIN-JOHANSSON ET AL) 14 April 1998 (1998-04-14) column 3, line 32 - column 4, line 58 column 5, line 18 - line 30; figure 1	1,2

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

22 February 2005

Date of mailing of the international search report

04/03/2005

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INTERNATIONAL SEARCH REPORTInt'l Application No
PCT/US2004/000796**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 40 10 372 A1 (SIEMENS AG, 1000 BERLIN UND 8000 MUENCHEN, DE) 2 October 1991 (1991-10-02) the whole document -----	1, 2
E	EP 1 499 159 A (SIEMENS AUDIOLOGISCHE TECHNIK GMBH) 19 January 2005 (2005-01-19) the whole document -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte...inal Application No
P...JK2004/000796

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6445799	B1	03-09-2002	DE EP WO	69827245 D1 0975293 A1 9843567 A1		02-12-2004 02-02-2000 08-10-1998
US 5033090	A	16-07-1991	DK DE	147988 A 3908673 A1		19-09-1989 28-09-1989
US 5740258	A	14-04-1998	NONE			
DE 4010372	A1	02-10-1991	NONE			
EP 1499159	A	19-01-2005	DE EP US	10332119 B3 1499159 A2 2005013456 A1		09-12-2004 19-01-2005 20-01-2005